

LISA W. WELSH

Department of Environment and Society, Quinney College of Natural Resources
5215 Old Main Hill, Utah State University, Logan, Utah 84322-5215
Lisa.Welsh@usu.edu

EDUCATION

Ph.D., Human Dimensions of Ecosystem Science and Management, Utah State University, 2014
(Specialization: Natural Resource and Environmental Policy)

Graduate Certificate, National Environmental Policy Act, Utah State University, 2015

M.S., Geology, Texas A&M University, 2007

B.S., Geology, graduated with Foundation Honors and *magna cum laude*, Texas A&M University, 2003

PROFESSIONAL EXPERIENCE

Researcher III and NEPA Program Co-Director, Utah State University, 2021-Present
Co-Principal Investigator, internally and externally funded research projects
Administrator and Instructor, National Environmental Policy Act (NEPA) Graduate Certificate Program
Co-facilitator, Southwestern Utah Growing Water Smart Workshop, Cedar City, UT, January 8-10, 2024
Co-facilitator, Weber Basin Growing Water Smart Workshop, Logan, UT, May 14-16, 2024

Instructor, Utah State University, 2014-Present
Undergraduate course: "Fundamentals of Natural Resource and Environmental Policy"
Graduate course: "Environmental Law and Policy"
National Environmental Policy Act (NEPA) Certificate courses (seven graduate courses)
Served on one M.S. graduate committee and two Ph.D. graduate committees

Postdoctoral Research and Teaching Fellow, Utah State University, 2015-2021
Co-Principal Investigator, internally and externally funded research projects
Administrator and Instructor, National Environmental Policy Act (NEPA) Graduate Certificate Program

RESEARCH AREAS

Human dimensions of drought management
Water reallocation policy
Great Salt Lake policy and management
Land and water planning integration
National Environmental Policy Act (NEPA) implementation

TECHNICAL SKILLS

Microsoft Office
Qualtrics
SPSS
MAXQDA

PUBLICATIONS

Welsh, L.W., Endter-Wada, J., Kettenring, K.M., and McEntire, A. 2023. Future of Great Salt Lake Survey. A 2023 USU Research Report. Janet Quinney Lawson Institute of Land Water and Air. Utah State University, Logan, Utah. <https://doi.org/10.26077/dxv7-a570>

Welsh, L.W., Endter-Wada, J., and Kettenring, K.M. 2023. Strategies to Secure Water for Great Salt Lake. *The Water Report* 237: 8-19. https://digitalcommons.usu.edu/envs_facpub/1665

- Wilfong, M., Litvak, E., Grijseels, N.H., Hamilton, K., Kucera, D., Welsh, L., Endter-Wada, J., Jenerette, G.D., and Pataki, D.E. *In revision*. Irrigation rates and turfgrass evapotranspiration in cities with contrasting water availability. *Journal of the American Water Resources Association*.
- Carney, C.P., Endter-Wada, J., and Welsh, L.W. 2023. *In review*. Water banking as an adaptive response to water insecurity in the western United States. *Water Resources Research*.
- Endter-Wada, J., Sternlieb, F., Welsh, L.W., Suedel, B.C., Madeley, M., Boling, E., Smith, M.D., Corcelli, L., and King, J.K. 2022. Transforming Institutions to Connect Land and Water for Healthy Communities. *Journal of the American Water Resources Association*. 58(3): 388-410. <https://doi.org/10.1111/1752-1688.13030>
- Carney, C.P., Endter-Wada, J., and Welsh, L.W. 2021. The Accumulating Interest in Water Banks: Assessing Their Role in Mitigating Water Insecurities. *Journal of the American Water Resources Association* 57(4): 552-571. <https://doi.org.10.1111/1752-1688.12940>
- Welsh, L.W. and Endter-Wada, J. 2017. Piping Water from Rural Counties to Fuel Metropolitan Growth in Las Vegas: Analysis of Controversies over Water Allocation and Transfers in the Arid U.S. West. *Water Alternatives* 10(2): 420-436. <http://www.water-alternatives.org/index.php/alldoc/articles/vol10/v10issue2/362-a10-2-12/file>
- Welsh, L.W. and Endter-Wada, J. 2017. Policy Debates over the Southern Nevada Water Authority Groundwater Development Project: Beneficial Uses of Water in a Desert. *Journal of the Southwest* 59:302-337. <http://doi.org/10.1353/jsw.2017.0014>
- Welsh, L.W. and Endter-Wada, J. 2016. Cache Water District: Risks and Opportunities. Research and Policy Analysis Report on Formation of a Water Conservancy District in Cache County, Utah. Utah State University. October 20, 2016.
- Welsh, L.W., Endter-Wada, J., Downard, R., and Kettenring, K. 2013. Developing Adaptive Capacity to Droughts: The Rationality of Locality. *Ecology & Society* 18(2): Article 7. <http://doi.org/10.5751/ES-05484-180207>
- Endter-Wada, J., Selfa, T., and Welsh, L.W. 2009. Hydrologic Interdependencies and Human Cooperation: The Process of Adapting to Droughts. *Weather, Climate, and Society* 1: 54-70. <https://doi.org/10.1175/2009WCAS1009.1>

CONTRACTS and GRANTS

Public Views on Water Strategies for Protecting the Great Salt Lake and its Wetlands. USU Extension Water Initiative, Marriner Eccles Foundation, U.S. Geological Survey. 2021-2023. [Joanna Endter-Wada (PI), Lisa Welsh (co-PI), Karin Kettenring (co-PI)].

Water Banking in Cache County. USU Extension Water Initiative, Cache Water District, Utah Division of Water Resources, and Utah Division of Water Rights. 2017-2020. [Joanna Endter-Wada (PI), Niel Allen (co-PI), Lisa Welsh (co-PI)].

Evaluation of Governance Structures and Processes Applicable to Water Management in Cache County, Utah. Cache County, Utah. 2015-2016. [Joanna Endter-Wada (PI); Lisa Welsh (Co-PI)].

Policy Designs to Address Water Reallocations During Societal Transitions. Division of Social and Economic Sciences (SES), Directorate for Social, Behavioral & Economic Sciences (SBE), National Science Foundation (NSF). 2011-2012. [Lisa Welsh, Dissertation Improvement Grant].

SELECTED PRESENTATIONS

“Water Initiative Grant Program.” With Joanna Endter-Wada and Karin Kettenring. Presented at the Utah Water Users Workshop, St. George, UT, March 20-22, 2023.

“Water Markets and Water Banking – Fostering Better Water Use?” Panel discussion with Joanna Endter-Wada, Clint Carney, Nathan Bracken, and Candice Hasenyager. Presented at the American Water Resources Association (AWRA) Annual Water Resources Conference, Salt Lake City, UT. November 3-6, 2019.

“Policy Debates over the Southern Nevada Water Authority Pipeline Project.” With Joanna Endter-Wada. Presented at the 19th International Symposium for Society and Resource Management, Estes Park, CO. June 4-8, 2013.

“Geopolitical Influences on Human Vulnerability to Drought: Comparing the Upper and Lower Divisions of the Bear River Basin.” With Joanna Endter-Wada. Poster presentation at Water-Ecosystem Services, Drought, and Environmental Justice: The First Millennium Conference of the Ecological Society of America, Athens, GA. November 9-12, 2009.

“Paradoxes in Adapting to Droughts: The Rationality of Locality.” With Joanna Endter-Wada, Rebekah Downard, and Karin Kettenring. Case study video selected for presentation at the Ecological Society of America’s (ESA) First Emerging Issues in Ecology Conference entitled *Water Ecosystem Services, Drought, and Environmental Justice*, Athens, Georgia, November 9-12, 2009.

Available as part of Ecological Society of America Videos on YouTube:

Part 1: <http://www.youtube.com/watch?v=MsRcSHJdodo>

Part 2: <http://www.youtube.com/watch?v=0KtNR3FtXOc>

“The Process of Adapting to Droughts: Humans Connected Through Hydrology and History in the Bear River Basin of Idaho, Utah, and Wyoming.” With Joanna Endter-Wada and Theresa Selfa. Oral presentation at Adaptive Management of Water Resources II, American Water Resources Association 2009 Summer Specialty Conference, Snowbird, UT. June 29-July 1, 2009.

PROFESSIONAL AFFILIATIONS

American Water Resources Association (AWRA)

Environmental Law Institute (ELI)

National Association of Environmental Professionals (NEAP)